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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/849,192	05/20/2004	Osamu Takeuchi	1614.1404	7291
21171	7590	11/28/2005	EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005				LEPISTO, RYAN A
			ART UNIT	PAPER NUMBER
			2883	

DATE MAILED: 11/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/849,192	TAKEUCHI ET AL.
	Examiner Ryan Lepisto	Art Unit 2883

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 20 May 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-13 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 20 May 2004 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 5/20/04.
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:
 - Fig. 4 shows the blade enclosure having reference number 16 while in the specification on page 11 it is states as 16A.

Drawings

2. Figure s 1-3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action.

Claim Objections

3. **Claim 8** is objected to because of the following informalities: – Bidirectional Line Switch Ring – should be added before "BLSR" to define the acronym. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. **Claims 1-5 and 7-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Byers et al (US 6,693,901 B1) (Byers).** Byers teaches a card (blade) type optical transmission apparatus (Figs. 1-5, column 2 lines 54-65, column 3 lines 16-25, 35-68, column 4 lines 54-68, column 5 lines 8-23, 32-34) comprising a plurality of main signal cards (104) having optical external interfaces (108), N x N cross connects (multiplexers) (110), power circuit (116) and internal optical and electrical interfaces (Fig. 2 shows the interfaces within cards) and a back plane (102) together forming a interconnection system (systems are not exposed to the environment, they are enclosed). Different optical routing schemes for this system are shown in different figures. Fig. 1 shows a point-to-point connection, Fig. 3 shows a bi-directional two-line ring system (wherein the number of rings are not limited to the number shown in the figure, column 3 lines 31-38) wherein there can still be point-to-point connections and a virtual ring connection wherein the cards partition the signal to the back plane (column 4 lines 32-68), Fig. 4 shows a double star configuration wherein the non-central cards act as through cards in

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passing the signal from the central cards to the back plane and Fig. 5 shows joint cards (504) that connect two different backplanes.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claim 6** is rejected under 35 U.S.C. 103(a) as being unpatentable over Byers as applied to claims 1-5 and 7-13 above, and further in view of Chilton (US 6,623,177 B1).

Byers teaches the communications system described above.

Byers does not show expressly that the back plane will couple between cards when a card is removed.

Chilton teaches an optical communications system (Fig. 1) with a back plane (22) that connects a plurality of cards (24) wherein if a card is removed the back plane provides coupling to the other cards (column 5 lines 29-38).

Byers and Chilton are analogous art because they are from the same field of endeavor, optical communications system.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to know that back planes in the art couple when cards are not engaged in certain slots as taught by Chilton since both teach using Infiniband interfaces. Byers

invention is about the cards so the teaching of this aspect of the backplane is not present even though it is an inherent property of back planes known in the art.

The motivation for doing so would have been to reduce complexity by being able to engage and disengage cards with needed (Chilton, column 5 line 35).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Lepisto whose telephone number is (571) 272-1946. The examiner can normally be reached on M-F 7:30AM-5:00PM.

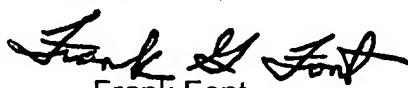
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Ryan Lepisto

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Date: 11/14/05


Frank Font

Supervisory Patent Examiner

Technology Center 2800